

WHAT IS CLAIMED IS:

- 1 1. A method comprising the steps of:
2 identifying a first text portion having a first format, wherein the text portion is embedded in
3 a video stream; and
4 converting the first text portion having the first format to a second text portion having a
5 second format different from the first format.
- 1 2. The method of Claim 1, wherein:
2 the first format includes a Teletext format; and
3 the second format includes a Closed Captioning format.
- 1 3. The method of Claim 2, wherein the first text portion is part of a subtitle page.
- 1 4. The method of Claim 1, wherein:
2 the first format includes a Closed Captioning format; and
3 the second format includes a Teletext format.
- 1 5. The method of Claim 1, wherein the step of identifying includes the steps of:
2 filtering the first text portion to identify a desired portion; and
3 copying a set of data associated with the desired portion when the desired portion is
4 identified.
- 1 6. The method of Claim 5, wherein the desired portion is identified based on a page identifier.
- 1 7. The method of Claim 6, wherein the page identifier identifies a subtitle page.

- 1 8. The method of Claim 6, wherein the page identifier is determined based on a transmission
2 source of the video stream.
- 1 9. The method of Claim 6, wherein the page identifier is determined based on user input.
- 1 10. The method of Claim 1, wherein the step of converting includes the step of reformatting the
2 first text portion from a first character display format to a second character display format to
3 generate a converted text portion.
- 1 11. The method of Claim 10, wherein:
2 the first character display format includes a maximum N characters-per-display line format;
3 and
4 the second character display format includes a maximum M characters-per-display line
5 format, where N and M are different integer numbers.
- 1 12. The method of Claim 11, wherein N is 40 and M is 32.
- 1 13. The method of Claim 10, wherein the step of reformatting includes the step of eliminating an
2 unintended line break while keeping a deliberate line break.
- 1 14. The method of Claim 1, further including the step of providing the second text portion to an
2 application, wherein the application is to utilize the second text portion.

- 1 15. The method of Claim 14, further including the steps of:
2 identifying a third text portion having the first text format, wherein the third text portion is
3 embedded in the video stream;
4 comparing the third text portion to the first text portion to detect a substantial match; and
5 excluding the third text portion from being provided to the application when a substantial
6 match is detected.
- 1 16. The method of Claim 14, wherein the application is to analyze the second text portion for at
2 least one keyword.
- 1 17. The method of Claim 14, wherein the application is to generate a transcript based on the
2 second text portion.
- 1 18. The method of Claim 14, wherein the application is to display the second text portion as
2 Closed Captioning text.
- 1 19. The method of Claim 14, wherein the application is to buffer the second text portion to
2 provide a Closed Captioning history navigable by a user.
- 1 20. The method of Claim 14, wherein the second text portion is provided to the application at a
2 specified rate.
- 1 21. The method of Claim 20, wherein the specified rate is determined experimentally.
- 1 22. The method of Claim 20, wherein the specified rate is determined based on a size of a buffer
2 used to buffer the second text portion before the second text portion is provided to the
3 application.

- 1 23. A method comprising the steps of:
2 filtering a set of Teletext data to identify a first set of text; and
3 converting the first set of text from a first character display format to a second set of text
4 having a second character display format different from the first character display
5 format.
- 1 24. The method of Claim 23, wherein the second character display format is based on a Closed
2 Captioning format.
- 1 25. The method of Claim 23, wherein the first set of text is identified based on a page identifier.
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- 1 26. The method of Claim 25, wherein the page identifier identifies a subtitle page.
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- 1 27. The method of Claim 25, wherein the page identifier is determined based on a transmission
2 source of the video stream.
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- 1 28. The method of Claim 25, wherein the page identifier is determined based on user input.
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- 1 29. The method of Claim 25, wherein the page identifier includes a subtitle identifier flag in the
2 set of Teletext data.
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- 1 30. The method of Claim 23, wherein:
2 the first character display format includes a maximum N characters-per-display line format;
3 and
4 the second character display format includes a maximum M characters-per-display line
5 format, where N and M are different integer numbers.

- 1 31. The method of Claim 30, wherein N is 40 and M is 32.
- 1 32. The method of Claim 23, wherein the step of converting includes eliminating an inadvertent
2 line break while keeping a deliberate line break.
- 1 33. The method of Claim 23, wherein the first set of text is part of a subtitle page of the Teletext
2 data.
- 1 34. The method of Claim 23, wherein the step of filtering includes the step of generating a copy
2 of the first set of text used for performing the step of converting.
- 1 35. The method of Claim 23, further including the step of providing the second embedded text
2 portion to an application, wherein the application is to utilize the second embedded text
3 portion.
- 1 36. The method of Claim 35, further including the step of:
2 filtering the set of Teletext data to identify a third set of text; and
3 comparing the third set of text to the first set of text to detect a substantial match; and
4 excluding the third set of text from being provided to the application when a substantial
5 match is detected.
- 1 37. The method of Claim 35, wherein the second set of text is provided to the application at a
2 specified rate.
- 1 38. The method of Claim 37, wherein the specified rate is determined experimentally.

1 39. The method of Claim 37, wherein the specified rate is determined dynamically based on a
2 size of a buffer used to buffer the second text portion before the second text portion is
3 provided to the application.

1 40. The method of Claim 37, wherein the application is to analyze the second text portion for at
2 least one keyword.

1 41. The method of Claim 37, wherein the application is to generate a transcript based on the
2 second text portion.

1 42. The method of Claim 37, wherein the application is to display the second text portion as
2 Closed Captioning text.

1 43. The method of Claim 37, wherein the application is to buffer the second text portion to
2 provide a Closed Captioning history navigable by a user.

- 1 44. A system comprising:
2 a filter to identify a first portion of a text portion embedded in a video stream, said text
3 portion having a first character display format;
4 a line parser to parse one or more characters from said first portion to generate a character
5 stream; and
6 a line converter to convert said character stream to a second portion having a second
7 character display format.
- 1 45. The system of Claim 44, wherein the first character display format includes a Teletext
2 display format and the second character display format includes a Closed Captioning format.
- 1 46. The system of Claim 44, wherein the first character display format includes a Closed
2 Captioning display format and the second character display format includes a Teletext
3 format.
- 1 47. The system of Claim 44, wherein the first character display format includes a maximum N
2 characters-per-display line format and the second character display format includes a
3 maximum M characters-per-display line format, where N and M are different integer
4 numbers.
- 1 48. The system of Claim 47, wherein N is 40 and M is 32.
- 1 49. The system of Claim 47, wherein N is 32 and M is 40.
- 1 50. The system of Claim 44, wherein said text portion includes a subtitle identifier flag
2 associated with said first portion, and wherein said subtitle identifier flag is used by said
3 filter to identify said first portion.

- 1 51. The system of Claim 44, wherein said first portion is identified based on a page identifier.
- 1 52. The system of Claim 51, wherein said page identifier includes a subtitle page.
- 1 53. The system of Claim 51, wherein the page identifier is determined based on a transmission
2 source of said video stream.
- 1 54. The system of Claim 51, wherein said page identifier is determined based on user input.
- 1 55. The system of Claim 44, further including a copy module to generate a copy of the first
2 portion and wherein said copy of the first portion is used by said line parser.
- 1 56. The system of Claim 44, further including an application to utilize said second portion.
- 1 57. The system of Claim 56, further including a rate modulator to output said second portion at a
2 first output rate to said application.
- 1 58. The system of Claim 57, wherein said first output rate is determined experimentally.
- 1 59. The system of Claim 57, wherein said first output rate is determined dynamically.
- 1 60. The system of Claim 59, wherein said rate modulator includes a buffer to buffer said second
2 portion, and where said first output rate is determined based on an extent to which said
3 buffer is populated.

- 1 61. The system of Claim 57, wherein said rate modulator further is to:
2 compare said second portion with a previous portion of said text portion converted by said
3 line converter to detect a substantial match; and
4 exclude said second portion from being provided to said application when a substantial
5 match is detected.
- 1 62. The system of Claim 56, wherein said application is to analyze said second text portion for at
2 least one keyword.
- 1 63. The system of Claim 56, wherein said application is to generate a transcript based on said
2 second text portion.
- 1 64. The system of Claim 56, wherein said application is to display said second text portion as
2 Closed Captioning text.
- 1 65. The system of Claim 56, wherein said application is to buffer said second text portion to
2 provide a Closed Captioning history navigable by a user.

1 66. A computer readable medium, said computer readable medium including instructions to
 2 manipulate a processor to:
 3 identify a first text portion having a first format, wherein the text portion is embedded in a
 4 video stream; and
 5 convert the first text portion having the first format to a second text portion having a second
 6 format different from the first format.

1 67. The computer readable medium of Claim 66, wherein:
 2 the first format includes a Teletext format; and
 3 the second format includes a Closed Captioning format.

4 68. The computer readable medium of Claim 67, wherein the first text portion is part of a
 5 subtitle page.

6 69. The computer readable medium of Claim 66, wherein:
 7 the first format includes a Closed Captioning format; and
 8 the second format includes a Teletext format.

1 70. The computer readable medium of Claim 66, wherein said instructions to manipulate said
 2 processor include instructions to manipulate said processor to:
 3 filter the first text portion to identify a desired portion; and
 4 copy a set of data associated with the desired portion when the desired portion is identified.

1 71. The computer readable medium of Claim 70, wherein the desired portion is identified based
 2 on a page identifier.

1 72. The computer readable medium of Claim 71, wherein the page identifier includes a subtitle
2 identifier flag associated with the first text portion in the video stream.

1 73. The computer readable medium of Claim 71, wherein the page identifier identifies a subtitle
2 page.

1 74. The computer readable medium of Claim 71, wherein the page identifier is determined based
2 on a transmission source of the video stream.

1 75. The computer readable medium of Claim 71, wherein the page identifier is determined based
2 on user input.

1 76. The computer readable medium of Claim 66, wherein said instructions to manipulate said
2 processor to convert include instructions to manipulate said processor to reformat the first
3 text portion from a first character display format to a second character display format to
4 generate a converted text portion.

1 77. The computer readable medium of Claim 76, wherein:
2 the first character display format includes a maximum N characters-per-display line format;
3 and
4 the second character display format includes a maximum M characters-per-display line
5 format, where N and M are different integer numbers.

1 78. The computer readable medium of Claim 77, wherein N is 40 and M is 32.

- 1 79. The computer readable medium of Claim 76, wherein said instructions to manipulate said
 2 processor to reformat include instructions to manipulate said processor to eliminate an
 3 unintended line break while keeping a deliberate line break.
- 1 80. The computer readable medium of Claim 66, further including instructions to manipulate
 2 said processor to provide the second text portion to an application, wherein the application is
 3 to utilize the second text portion.
- 1 81. The computer readable medium of Claim 80, further including instructions to manipulate
 2 said processor to:
 3 identify a third text portion having the first text format, wherein the third text portion is
 4 embedded in the video stream;
 5 compare the third text portion to the first text portion to detect a substantial match; and
 6 exclude the third text portion from being provided to the application when a substantial
 7 match is detected.
- 1 82. The computer readable medium of Claim 80, wherein the application is to analyze the second
 2 text portion for at least one keyword.
- 1 83. The computer readable medium of Claim 80, wherein the application is to generate a
 2 transcript based on the second text portion.
- 1 84. The computer readable medium of Claim 80, wherein the application is to display the second
 2 text portion as Closed Captioning text.
- 1 85. The computer readable medium of Claim 80, wherein the application is to buffer the second
 2 text portion to provide a Closed Captioning history navigable by a user.

- 1 86. The computer readable medium of Claim 80, wherein the second text portion is provided to
2 the application at a specified rate.
- 1 87. The computer readable medium of Claim 83, wherein the specified rate is determined
2 experimentally.
- 1 88. The computer readable medium of Claim 83, wherein the specified rate is determined based
2 on a size of a buffer used to buffer the second text portion before the second text portion is
3 provided to the application.